



## Thermal Interface Material with High Permeability ( $\mu' = 13$ )

### Features

- Excellent EMI absorber performance ( $\mu' = 13$ ) and compliant thermal material (ASKER C 40).
- Have excellent adhesion, performs heat conduction and MHz~GHz range electromagnetic wave attenuation simultaneously.
- Silicone-free, no siloxane outgassing.
- Oil bleeding is reduced compared to silicone-based thermal materials.

(The values below are not guaranteed.)

Test type	Unit	Standard	EMPV4-F
Thermal Conductivity	W/m·K	JIS R 2616 (Hot-wire method)	1.5
		ISO22007-2 (Hot Disc method)	1.4
Color	—	—	Black
Thickness	mm	—	1.0/1.5/2.0
			2.5/3.0/3.5
Specific Gravity	—	JIS Z 8807	3.55
Hardness	ASKER C	JIS K 7312	40
	Shore 00	ASTM D 2240	70
Tensile strength	MPa	JIS K 6251	0.51
Elongation rate	%	JIS K 6251	44
Volume Resistivity	$\Omega$ ·cm	JIS K 6911 compliant	$1.0 \times 10^{12}$
Breakdown voltage	kV/mm	JIS C 2110-1 compliant	6.0
Withstanding voltage	kV/mm	JIS C 2110-1 compliant	4.2
Dielectric constant	1 MHz	Company standard	12.7
Loss tangent	1 MHz	Company standard	0.13
Flammability	—	UL94	V-0 equivalent
Permeability (at 10MHz)	—	—	13
Operating temp	°C	—	-40~110
Available max. dimension <sup>*)</sup>	mm	—	210×510

\* 1) Please contact us for available pcs/sheet.

